

LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

## APPLICANT:

Mendoza, E. A. et al.

## FILING DATE:

May 19, 2000

## GROUP:

2874

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
M	AA	4,725,110	02/16/88	Glenn et al.	350/3.61		10/27/86
	AB	5,080,503	01/14/92	Najafi et al.	385/1		10/01/90
	AC	5,080,962	01/14/92	Hench	428/218		04/05/89
	AD	5,151,958	09/29/92	Honkanen	385/50		07/26/91
	AE	5,265,185	11/23/93	Ashley	385/132		10/02/92
	AF	5,574,807	11/12/96	Snitzer	385/24		06/06/95
	AG	5,620,495	04/15/97	Aspell et al.	65/392		08/16/95
	AH	6,054,253	04/25/00	Fardad et al.	430/32		10/10/97
	AI	6,115,518	09/05/00	Clapp	385/37		07/17/97
	AJ	6,158,245	12/12/00	Savant	65/17.2		08/25/98

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
M	AK	WO 99/06873	02/11/99	PCT/US	C03B 32/00			X
M	AL	2,218,273	04/10/99	Canada	G02B 6/136			X

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

M	AM	Mendoza E.A., Ferrell D.J., Syracuse S.J., Khalil A.N., Lieberman R.A., "Photolithography of Integrated Optice Devices in Sol-Gel Glasses," Proc. SPIE-Int. Soc. Opt. Eng., Vol. 2288, pp. 580-588 (1999)
M	AN	Najafi, S.I., Touam T., Sara R., Andrews M.P., Fardad M.A., "Sol-Gel Glass Waveguide and Grating on Silicon," Journal of Lightwave Technology, Vol. 16, No. 9 (1998)
M	AO	McEntee J. "Sol-Gel Devices 'will meet cost targets of fibre to the home'," Opto & Laser Europe, Issue 31, p. 5 (1996)
M	AP	Coudray, P., Chisham, J., Malek-Tabrizi, A., Li, C.-Y., Andrews, M.P., Peyghambarian, N., Najafi, S.I., "Ultraviolet Light Imprinted Sol-Gel Silica Glass Waveguide Devices on Silicon," Optics Comm., 128(1-3) 19-22 (1996).
M	AQ	Coudray, P., Chisham, J., Andrews, M.P., Najafi, S.I., "Ultraviolet Light Imprinted Sol-Gel Silica Glass Low-Loss Waveguides For Use At 1.55 $\mu$ m," Opt. Eng. 36(4) 1234-1240 (1997)

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AR	Fardad, A., Andrews, M., Milova, G., Malek-Tabrizi A., Najafi, I., "Fabrication of Ridge Waveguides:: A New Solgel Route," Applied Optics, Vol. 37, No. 12., pp. 2429-2434 (1998)
AS	Najafi, S.I., Armenise, M.N., "Organoaluminophosphate sol-gel silica glass thin films for integrated optics," Proc. SPIE-Int. Soc. Opt. Eng., Vol. 2997 pp. 79-84 (1997)
AT	Cindrich I., Lee, S.H., Sutherland, R. L., "Adapting Existing E-Beam Writers to Write HEBS-Glass Gray Scale Masks," Proc. SPIE-Int. Soc. Opt. Eng., Vol. 3633 pp. 35-45 (1999),
AU	Kley, E-B., "Continuous Profile Writing by Electron and Optical Lithography," Microelectronic Engineering, 34 pp. 261-298 (1997)
AV	Syms, R.R.A., "Silica-On Silicon Integrated Optics," Advances in Integrated Optics, pp. 121-150 (1994)
AW	Najafi, S.I., Andrews, M.P., Fardad, M.A., Milova, G., Tahar, T., Coudray, P., "UV-Light Imprinted Surface, Ridge and Buried Sol-Gel Glass Waveguides and Devices on Silicon," Proc. SPIE-Int. Soc. Opt. Eng., Vol. 2954 pp. 100-104 (1996)
AX	Holmes, A.S., Syms, R.R.A., "Fabrication of Low-Loss Channel Waveguides in Sol-Gel Glass on Silicon Substrates," Advanced Materials in Optics, Electro-Optics and Communication Technologies (1995)
AY	Holmes, A.S., Syms, R.R.A., Li, M., Green M., "Fabrication of Buried Channel Waveguides on Silicon Substrates Using Spin-On Glass," Applied Optics, Vol. 32, No. 25 pp. 4916-4921 (1993)
AZ	Kawachi, M., "Silica Waveguides on Silicon and Their Application to Integrated-Optic Components," Optical and Quantum Electronics, Vol. 22, No. 5, pp. 391-416 (1990)
BA	Ballato, J., Dejneka, M., Riman, R.E., Snitzer, E., Zhou, W., "Sol-Gel Synthesis of Rare-Earth-Doped Fluoride Glass Thin Films," Journal of Materials Research, Vol. 11, No. 4., pp. 841-849 (1996)
BB	Yang, L., Saavedra, S.S., Armstrong, N.R., Hayes, J., "Fabrication and Characterization of Low-Loss, Sol-Gel Planar Waveguides," Anal. Chem. Vol. 66, No. 8, pp. 1254-1263 (1994)
BC	Schmidt, H., "Thin Films, the Chemical Processing up to Gelation," Structure and Bonding, Vol. 77, pp. 119-151 (1992)
BD	Chisham, J.E., Andrews, M.P., Li, C.-Y., Najafi, S.I., Makek-Tabrizi, A., "Gratings Fabrication by Ultraviolet Light Imprinting and Embossing in a Sol-Gel Silica Glass," Proc. SPIE-Int. Soc. Opt. Eng., Vol. 2695, pp. 52-56 (1996)
BE	Svalgaard, M., Poulsen, C.V., Bjarklev A., Poulsen, O., "Direct UV Writing of Buried Singlemode Channel Waveguides in Ge-Doped Silica Films," Electronic Letters, Vol. 30, No. 17, pp. 1401-1403 (1994)
BF	Andrews, M.P., Kanigan T., Najafi, S.I., "Auto-Embossed Bragg Gratings From Self-Organizing Polymers: Chemical Tuning of Periodicity and Photoinduced Anisotropy," Proc. SPIE-Int. Soc. Opt. Eng., Vol. 2695, pp. 4-15 (1996)
BG	Najafi, S. I., Li, C.-Y., Chisham, J., Andrews, M.P., Coudray, P., Malek-Tabrizi, A., Peyghambarian, N., "Ultraviolet Light Imprinted Sol-Gel Silica Glass Channel Waveguides on Silicon," Proc. SPIE-Int. Soc. Opt. Eng., Vol. 2695, pp. 38-41 (1996)
BH	Brinker, C.J., Scherer, G.W., "The Physics and Chemistry of Sol-Gel Processing," Sol-Gel Science, Academic Press, Inc. pp. 864-1879.
BI	Li, C.-Y., Chisham, J., Andrews, M., Najafi, S.I., Mackenzie, J.D., Peyghambarian, N., "Sol-Gel Integrated Optical Coupler by Ultraviolet Light Imprinting," Electronic Letters, Vol. 31, No. 4, pp. 271-272 (1995)
BJ	Andrews, M.P., "An Overview of Sol Gel Guest-Host Materials Chemistry for Optical Devices," Proc. SPIE-Int. Soc. Opt. Eng., Vol. 2997, pp. 48-59 (1997)
BK	Rösch, O.S., Bernhard, W., Müller-Fiedler, R., Dannberg, P., Bräuer, A., R. Buestrich, R., Popall, M., "High Performance Low Cost Fabrication Method for Integrated Polymer Optical Devices," Proc. SPIE-Int. Soc. Opt. Eng., Vol. 3799, pp. 214-224

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BL	Roscher, C., Buestrich R., Dannberg, P., Rösch, O., Popall, M., "New Inorganic-Organic Hybrid Polymers for Integrated Optics," Mat. Res. Soc. Symp. Proc. Vol. 519, pp. 239-244 (1998)
BM	Mendoza, E.A., "Photolithography of Integrated Optic Devices in Porous Glasses," UMI Dissertation Services (1992)
BN	Mendoza, A., Wolkow, E., Sunil, D., Wong, P., Sokolow, J., Rafailovich, M., den Boer, M., Gafney, H., "A Comparison of Iron Oxides Photodeposited in Porous Vycor Glass and Tetramethoxysilane/Methanol/Water Xerogels," Langmuir, Vol. 7, No. 12, pp. 993-4009 (1991)
BO	Che, T., Soskey, P., Banash, M., Caldwell, M., McCallum, I., Mininni, R., Warden, V., "Optimization of a Gel Derived Gradient Index Material," Proc. SPIE-Int. Soc. Opt. Eng., Vol. 1758, pp. 193-204 (1992)
BP	Gafney, H., "A Photochemical Approach to Integrated Optics," J. Macromol. Sci.-Chem. Vol. A27(9-11), pp. 1187-1202 (1990)
BQ	Simmons, K., Stegeman, G., Potter, B., Simmons, J., "Photosensitivity of Solgel-Derived Germanosilicate Planar Waveguides," Optics Letters, Vol. 18, No. 1, pp. 25-27 (1993)
BR	Mendoza, E., Gafney, H., "Photolithography of Integrated Optic Devices in Porous Glasses," Nonlinear Optical Materials, CRC Press, eds. Kuhn, H., Robillard, J., Part V, pp. 178-191 (1992)
BS	Mendoza, E., Gafney, H., "Photolithographic Imaging of Planar Optical Waveguides and Integrated Optic Devices Onto Porous Silicate Glasses and Silica Sol-Gels," Mat. Res. Soc. Symp. Proc., Vol. 244, pp. 343-350 (1992)
BT	Mendoza, E., Gafney, H., Morse, David, "Photolithographic Processing Of Integrated Optic Devices In Glasses," SPIE Vol. 1583 Integrated Optical Circuits, pp. 43-51 (1991)
BU	Mendoza, E., Gafney, H., Morse, D., "The Photochemical Generation of Gradient Indices in Glass," SPIE Vol. 1378 Optically Activated Switching, pp. 139-144 (1990)
BV	Wolkow, E., Gafney, H., Wong, P., Hanson, A., "Highly Resolved Gradient Patterns in Glass by Means of Chemical Vapor Deposition," Mat. Res. Soc. Symp. Proc. Vol. 168, pp. 381-393 (1990)
BW	Mendoza, E., Ferrell, D., Lieberman, R., "Photolithography of Bragg Gratings in Sol-Gel Derived Fibers," SPIE Vol. 2288 Sol-Gel Optics III, pp. 621-629 (1994)

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